DIVE RITE®

NiTek® Q

Quick Start Guide

www.DiveRite.com

CO8000 NiTek Q Computer QS Guide__Aug 17 2011

Congratulations on your Dive Rite NiTek Q purchase.

This Quick Start Guide is intended to familiarize you with the basic functions of this computer. It is not a substitute for the user manual found in our library at www.DiveRite.com. You MUST read the NiTek Q user manual in its entirety before diving this product.

The NiTek Q is an electronic device and electronic devices can fail. NEVER dive this computer without a back up device or dive tables.

Before you dive your Q, you will need to fully charge the battery. Use a coin to remove the USB/battery cap on the back. The NiTek Q can be charged with either the included AC charger or any USB connection. Check the battery charge status icon on the Surface mode screen to ensure it is fully charged before you dive.

Getting Started

- The NiTek Q has an always-on OLED screen that returns to a sleep mode (hibernation) after 10 minutes.
- PRESS either A or B button to bring it out of hibernation.
- The Home screen shows the serial number and the software version.
- The Surface screen is the default screen, which will appear ten seconds following activation.
- The Surface screen displays battery charge status, date, time, choice of FRESH water or SEA calibration, and the first gas mix you will use when diving.
- Navigating the menus of the Q is intuitive: the left (**A**) button and right (**B**) button are used in the same way across all screens.

  PRESS **A** to scroll

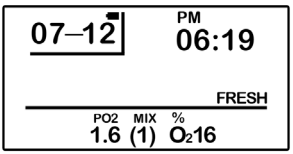
  PRESS **B** to select

  PRESS **A** to confirm the choice and advance to the next option.

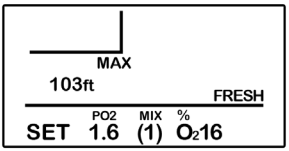
- To return to the Surface Mode Screen: PRESS and hold the **A** button for 2-3 seconds.
- If no buttons are pressed within about 20 seconds, the screen will return to the surface mode.
- To return the computer to hibernation:

  PRESS the **B** button for 2-3 seconds.

Home Screen



Surface Mode Screen



SET Mode Screen

Menus

Dive Option SET Mode

- The dive option SET and display mode is where all "dive" settings are programmed including your P0$_2$ alarm for each gas (either 1.4 or 1.6), %0$_2$, an optional maximum depth alarm, a maximum dive time alarm, conservatism/gradient factor options, a sampling rate for the log book (either 15 or 30 second intervals), the FRESH or SEA water option, and brightness control.

- To get to the SET Mode Screen from the Surface Mode Screen:

  PRESS the **A** button.

- ### Programming Gas Mixes

  PRESS the **B** button. The MIX number will be flashing "1." To select Mix 1:

  PRESS the **A** button, which will lock in your first mix and then scroll to the P0$_2$ alarm option.

  PRESS the **B** button to toggle between 1.4 and 1.6 P0$_2$ alarm.

Menus: SET Mode continued

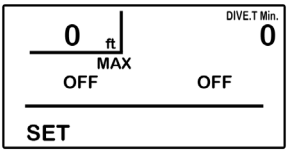
PRESS the **A** button to set your P0$_2$ alarm. The computer will automatically advance to your %0$_2$ gas option.

PRESS the **B** button to select your %0$_2$.

NOTE: *Up to 2 different gas mixes can be programmed, but if you are only using 1 mix, you only need to set MIX 1.*

Additional Settings

- Maximum Depth Alarm
- Maximum Dive Time Alarm
- Conservatism/Gradient Factor
- Metric/Imperial
- Dive Profile Sampling Rate
- Fresh/Sea Water
- Brightness Control



SET Mode Screen

Maximum Depth and Time Alarms

If you do not wish to set a Maximum Depth Alarm, continue to press the A button to scroll through this menu. If you wish to set a Depth Alarm:

PRESS the **B** button until your reach your desired maximum depth.

PRESS the **A** button to select the depth, and

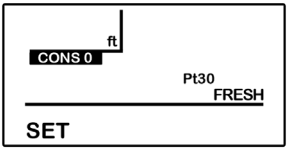
PRESS the **B** button to select "ON." The computer will advance to the Maximum Dive Time Alarm option.

If you do not wish to set a Maximum Dive Time Alarm, continue to press the A button to scroll through this menu. If you wish to set a Dive Time Alarm:

PRESS the **B** button until your reach your desired dive time.

PRESS the **A** button to select the time, and

PRESS the **B** button to select "ON." The computer will scroll to the Conservatism/Gradient Factor option.



SET Mode Screen

Conservatism/Gradient Factors

The NiTek Q uses the Buhlman ZLH16 algorithm, a default gradient factor of 30/75, and two addit--ional pre-set GF settings to choose from that allow for deep stops or shallow stops.

PRESS the **B** button to choose your GF:
CONS 2= 30/75 (default)
CONS 1= 40/100
CONS 0= 75/95

PRESS the **A** button to select your GF. The computer will then scroll to the flashing Imperial/Metric option.

Imperial/Metric

PRESS the **B** button to toggle to either ft (Imperial) or m (Metric).

PRESS the **A** button to set your option. The computer will then scroll to the sampling rate option for your dive log.

Sampling Rate (for Log Book and Profile)

PRESS the **B** button to toggle to either 15 seconds or 30 seconds.

PRESS the **A** button to set your selection. The computer will then scroll to the calibration option for either FRESH or SEA water.

FRESH or SEA

PRESS the **B** button to toggle to either FRESH water or SEA.

PRESS the **A** button to set your option. The computer will then advance to additional screens.

Brightness Control

Upon entering the SET screen, MIX 1 is flashing.

PRESS the **A** button repeatedly until the Brightness number is flashing.

PRESS the **B** button to change the brightness. When finished, press the A button to lock in your selection.

Additional Screens

- PLAN
- LOG
- PROFILE
- PC
- TIME/ DATE

PRESS the **A** button to scroll to additional screens.

PLAN displays the NDL (no decompression limit) based on your programmed gasses for a dive.

PRESS the **B** button to activate the screen. Continue pressing the B button to change depths for your NDL.

LOG is where your logged dives are stored.

PRESS the **B** button to activate the screen. Continue pressing the B button to scroll through logged dives.

PROFILE is where graphic profiles of each dive are stored.

PRESS the **B** button to activate the screen. Continue pressing the B button to scroll through your logged profiles.

PC - Workbench dive software allows the Q diver to perform dive planning or gas mixes on either a PC or MAC. An optional upgrade to the Workbench Logbook allows you to upload dive data and view dive profiles. Contact Dive Rite at Qunlocks@diverite.com for information about the Workbench upgrade.

TIME - From the Surface Mode Screen scroll through the menus using the A button to the TIME screen. The seconds will be flashing.

PRESS the **B** button to reset to 00.

PRESS the **A** button to scroll to minutes.

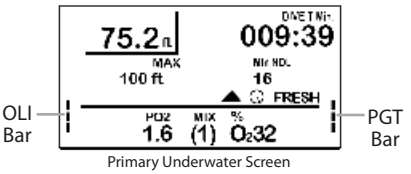
PRESS the **B** button to set the accurate time.

Continue setting hours, year, day, and month using the A and B buttons as directed above. To change to 24-hour time:

PRESS the **B** button when "PM" flashes.

Dive Mode

Dive Computer Mode: The Dive Computer Mode is automatically entered when the computer enters the water. It begins performing its dive calculations once you descend below 5 feet (1.5m). While in diving mode, the computer calculates and displays information about your dive and prompts you with safety stop information and warnings, if needed. When diving, there are two screens you can toggle between, and you can switch to different gas mixes, when needed.

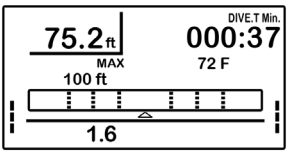


Primary Underwater Screen

Primary Underwater Screen: Displays depth, remaining no-decompression time, dive time, max depth, mix $P0_2$, and 0_2 percentage, mix number, and PGT (pressure gas in tissue) and OLI (oxygen limit indicator) bar graphs (graphic representations of your "CNS clock").

To get to the Second Underwater Screen:

PRESS and hold the **B** button. Release the B button to return to the Primary Underwater Screen.



Second Underwater Screen

Second Underwater Screen: Displays current depth, dive time, temperature and conservatism (gradient) factor.

Changing Gas Mixes:

PRESS the **A** button and the MIX number will flash.

PRESS the **B** button as needed to select mix number. O_2, and $P0_2$ will change per the programmed mix.

PRESS the **A** button to lock the mixture and return to the primary screen. A mix cannot be locked in if it causes you to exceed pre-programmed 1.4 or 1.6 ATM.

WARNINGS: There are several visual warnings you should be alert to and become familiar with. Refer to your NiTek Q user manual at www.DiveRite.com for additional information. These include:

- Ascent-Rate Warning
- P02 Limit Warning
- PGT Limit Warning
- OLI Warning
- Decompression Warning
- Deco-Stop Violation Warning

NiTek Q

FREEDOM OF CHOICE

This two-gas Nitrox dive computer gives you the freedom to choose additional features as your skills grow and your equipment changes. The Q diver can upgrade to normoxic or hypoxic Trimix, CCR, digital compass, and custom gradient factors. You only pay for the features you will use and can upgrade to additional features at any time. Contact us at Dive Rite at Qunlocks@diverite.com to upgrade your NiTek Q and then simply connect to any standard USB port to unlock the features you have added.

SUPPORT: All Dive Rite products receive our commitment to excellence in customer service from your fellow divers. Contact us at support@diverite.com or phone at 800-495-1046, M-F 9A-4P, EST.

Using Your NiTek Q

The following is a checklist of general things you should pay attention to before, during, and after a dive.

Before A Dive:

Be sure the computer is charged. The Q can be charged from any USB connection or from its included charger.
Ensure that the USB cap is secure.
Check that the proper time and date are set.
Check that the proper mixes and modes are set.
Review the dive plan for maximum depth, times, and for mixes you plan to use.

During A Dive:

Monitor your NiTek Q throughout the dive for depth and time.
Monitor the Pressure Gas In Tissue (PGT) and Oxygen Limit Indicator (OLI) bar graphs.
Heed all alarms or warnings.
Follow the no-decompression limits, or complete any displayed decompression schedule.

After A Dive:

Monitor Surface Interval Time if making another dive.
Follow desaturation and no-fly guidelines.
Review your dive using the log book and profile modes.

NOTE: *The Q defaults to a sleep mode (or hibernation) after 10 minutes. The screen display is the biggest drain on the battery. You can put the computer back to sleep by pressing the B button for 3-5 seconds. To reawaken the computer press either A or B button.*

DIVE RITE®

800-495-1046

www.DiveRite.com

Copyright © 2011 Lamartek, Inc. dba Dive Rite
This manual is copyrighted by Lamartek, Inc. dba Dive Rite. You may not reproduce, translate, transcribe, or transmit any part of this manual without express, written permission from Lamartek, Inc. dba Dive Rite.